Figure 4-7 Simulated and Observed Runoff at S-63 located downstream of Lake Gentry

In order to simulate the runoff from the lakes the hydraulic structures (S-61 and S-63) must operate approximately as they have done in reality. As their precise operation is not known, it is obviously not possible to simulate the runoff in detail. In the model the hydraulic structures attempt to maintain a certain target water level in the lakes. For instance structure S-61 attempts to maintain the recorded water level in Lake Toho. Thus the recorded water level in Lake Toho is the "target" water level for S-61. The operation is implemented in the model in a simplified manner. The model compares, at each single time-step, the simulated water level in Lake Toho with the target water level. If the simulated water level is higher than the target level the gate will open an additional 4 inches (10 cm) until the simulated water level drops below the target level. Similar, if the simulated lake water level is below